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US6024053 or 6024053

**US Design Patent**

D0318249

**US Plant Patents**

PP8901

**US Reissue**

RE35312

**US SIR**

H1523

**US Patent Applications**

20020012233

**World Patents**

WO04001234 or WO2004012345

**European**

EP1067252

**Great Britain**

GB2018332

**German**

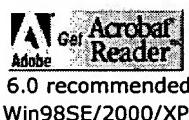
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**25 Patent(s) in Cart****Patent Abstract** [Add to cart](#)

**GER 1992-11-12 4115508 Thermoplastic polyurethane  
elastomers prodn. with improved hydrolysis and wear  
resistance - by adding further di:isocyanate during  
thermoplastic processing, followed by heating  
ANNOTATED TITLE- VERFAHREN ZUR HERSTELLUNG  
VON HOCHMOLEKULAREN THERMOPLASTISCH  
VERARBEITBAREN POLYURETHANEELASTOMEREN MIT  
VERBESSERTER HYDROLYSEBESTAENDIGKEIT UND  
VERBESSERTER VERSCHLEISSFESTIGKEIT**

**INVENTOR-** RISCHE THOMAS DE6.0 recommended  
Win98SE/2000/XP**APPLICANT-** INST TECHNOLOGIE DER POLYMERE DE**PATENT NUMBER-** 04115508/DE-A1**PATENT APPLICATION NUMBER-** 04115508**DATE FILED-** 1991-05-11**DOCUMENT TYPE-** A1, DOCUMENT LAID OPEN (FIRST  
PUBLICATION)**PUBLICATION DATE-** 1992-11-12**INTERNATIONAL PATENT CLASS-** B29C07102;  
C08G01842; C08G01848; C08G01866; C08G01882;  
C08J00700; C08K00529; C08L07504; C08G01808R;  
C08G01810; C08G01810; C08G01882**PATENT APPLICATION PRIORITY-** 4115508, A**PRIORITY COUNTRY CODE-** DE, Germany, Ged. Rep. of**PRIORITY DATE-** 1991-05-11**FILING LANGUAGE-** German**LANGUAGE-** German NDN- 203-0279-9293-2

High-mol. wt. thermoplastic polyurethane (TPU) elastomers

(I) are prepd. by adding 0.05-5 wt.% organic di-isocyanate (II) to a conventional TPU elastomer (III) during thermoplastic processing, and conditioning the moulding material obtd. for at least 1 hr. at 50-150 deg.C.

**EXEMPLARY CLAIMS-** 1. Procedure for the production of high-molecular thermoplastic processable PU elastomers marked by improved resistance to hydrolysis and improved abrasion resistance on actually well-known Kunststoffverarbeitungsmaschinen, by the fact that conventional thermoplastic processable PU elastomers during a thermoplastic processing 0.05 to 5 mass portions in % of an organic Diisocyanats added, which is annealed developed molding material in the temperaturerange from 50 to 150°C at least one hour. 2. Procedure according to requirement 1, by the fact characterized that 0.2 to 3 mass portions in % of the Diisocyanats is added. 4. Procedure according to requirement 1 to 3, by the fact characterized that as Diisocyanat an aliphatic and/or aromatic rings containing Diisocyanat and/or a diisocyanatfreisetzenconnection and/or a isocyanate-scheduled Praepolymer with a molecular mass are added of less than 5000. 5. Procedure according to requirement 1 to 4, by the fact characterized that the added Diisocyanat 4,4-Diphenylmethandiisocyanat is. 6. Procedure according to requirement 1 to 5, by the fact characterized that the added Diisocyanat contains 0 to 60 mass portions in % of a high-functional isocyanate. 7. Procedure according to requirement 1 to 6, by the fact characterized that the organic Diisocyanat in firm or liquid form is proportioned in the charging hole and/or the feeding zone or in another suitable place of extrusion and/or the jet moulding machine into the polymer melt. 8. Procedure according to requirement 1 to 7, by the fact characterized that the organic Diisocyanat to conventional thermoplastic processable PU elastomers before the actual processing process outside of the processing machinemetered and the moistened granulates is supplied to the processing process in actually well-known way. X DE 41 15 508 AI 9. Procedure according to requirement 1 to 8, by the fact characterized that after conclusion actual processing-and/or the final shaping process, which is

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